



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert H. Grubbs et al. Docket No.: 20072-0278319
Serial No.: 09/891,144 Group Art Unit: 1621
Filing Date: June 25, 2001 Examiner: Zucker, Paul A.

For: **SYNTHESIS OF FUNCTIONALIZED AND UNFUNCTIONALIZED OLEFINS VIA CROSS AND RING CLOSING METATHESIS**

OFFICE ACTION RESPONSE

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MAIL STOP AMENDMENT - FEE
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

JUL 15 2003

TECH CENTER 1600/2900

Dear Sir:

In response to the Office Action dated January 8, 2003, Applicants submit the following:

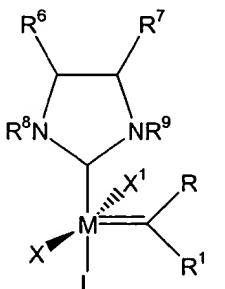
AMENDMENT

IN THE CLAIMS

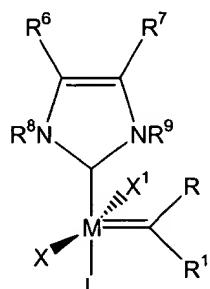
Please enter the following amended claims:

1. 1. (Currently amended) A method for preparing trisubstituted olefins comprising:
2. contacting a geminal disubstituted olefin with a terminal olefin in the presence of a metal
3. carbene metathesis catalyst to generate a trisubstituted olefin in an intermolecular olefin
4. cross-metathesis reaction.

1. 2. (Original) The method of Claim 1 wherein the catalyst is of the formula:



or



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3 wherein: